

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A method ~~of~~for producing a honeycomb structure,
comprising the steps of:
forming two hexagonal cell metal plates each having uniformly-spaced
hexagonal pegs, using a mould and a press;
applying a fusing material or strong adhesive to outer surfaces of the hexagonal
pegs; and
using a press and a die to form two overlapping the metal plates that have
hexagonal pegs protruding out on one side and applying welding material or some adhesive
onto the hexagonal pegs and then joining the two formed metal plates by facing the
protruding sides to each other such that surfaces of the metal plates, from which the
hexagonal pegs are protruded, face each other, and coupling the metal plates such that
adjacent ones of the hexagonal pegs of the metal plates are engaged, thereby producing a
honeycomb structure having continuously joined cells.

2. (Currently amended) The method ~~of~~according to claim 1, wherein the
hexagonal pegs have different polygonal shapes such as triangular, square, and octagonal
or even circular may be substituted with a pentagonal, square, triangular, or circular cross-
sectional shape.